

| | | |
|--|---|--|
| INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i> <p style="text-align: center;">Page 1 of 3</p> | ATTY. DOCKET NO. 15471ZYX (PC9590F) | SERIAL NO. <i>To Be Assigned</i> 10/669,941 |
| APPLICANT Brake et al. | | |
| FILE DATE Concurrently herewith | | GROUP <i>To Be Assigned</i> 1645 |

| U.S. PATENT DOCUMENTS | | | | | | | | | | | | | |
|-----------------------|--------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------|-------------------------|----------------------|----------|--------------------------|
| EXAMINER INITIAL | | DOCUMENT NUMBER | | | | | | | DATE | NAME | CLASS | SUBCLASS | FILE DATE IF APPROPRIATE |
| <i>100</i> | A | 5 | 6 | 4 | 3 | 7 | 1 | 8 | 7/1/97 | Kim et al. | 435 | 6 | 11/4/93 |
| | B | 5 | 7 | 0 | 7 | 6 | 1 | 7 | 1/13/98 | Conrad et al. | 424 | 93.1 | 10/20/94 |
| | C | 5 | 9 | 7 | 6 | 8 | 5 | 3 | 11/99 | Kim et al. | Duplicate | | |
| | D | 6 | 0 | 7 | 1 | 7 | 3 | 7 | 6/2000 | Marsh et al. | Duplicate | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | | | | | | | | |
|--------------------------|---|-----------------|---|----|---|---|---|---|---------|---------|-------|----------|-------------|--|--|
| | | DOCUMENT NUMBER | | | | | | | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | | |
| | | YES | | NO | | | | | | | | | | | |
| BP | E | 9 | 7 | 1 | 7 | 0 | 8 | 2 | 5/15/97 | WO | | | | | |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|--|---|---|---|---|---|---|---|--|---|---|---|--|---|--|---|---|---|--|---|--|---|---|
| <i>100</i> <div style="border-left: 1px solid black; height: 150px; margin-left: 10px;"></div> | <table style="width:100%; border-collapse: collapse;"> <tr><td style="width:5%; text-align: center;">F</td><td>Asbroek et al, 1990, Nature 348:174-175, "Targeted insertion of the neomycin phosphotransferase gene into the tubulin gene cluster of Trypanosoma brucei."</td></tr> <tr><td style="text-align: center;">G</td><td>Barr et al., 1994, J. Vet. Diagn. Invest. 6:207-215, "Experimental reproduction of bovine fetal Neospora infection and death with a bovine Neospora isolate."</td></tr> <tr><td style="text-align: center;">H</td><td>Cole et al., 1995, J. Parasitol. 81:730-732, "Vertical transmission of Neospora caninum in mice."</td></tr> <tr><td style="text-align: center;">I</td><td>Conrad et al., 1993, Parasitol. 106:239-249, "In vitro isolation and characterization of a Neospora sp. from aborted bovine fetuses."</td></tr> <tr><td style="text-align: center;">J</td><td>Cruz and Beverley, 1990, Nature 348:171-173, "Gene replacement in parasitic protozoa."</td></tr> <tr><td style="text-align: center;">K</td><td>Donald and Roos, 1994, Mol. Biochem. Parasitol. 63:243-253, "Homologous recombination and gene replacement at the dihydrofolate reductase-thymidylate synthase locus in Toxoplasma gondii."</td></tr> <tr><td style="text-align: center;">L</td><td>Dubey and Lindsay, 1993, Parasitol. Today 9:452-458 "Neosporosis."</td></tr> <tr><td style="text-align: center;">M</td><td>Eid and Solner-Webb, Proc. Natl. Acad. Sci. USA 88:2118-2121, "Stable integrative transformation of Trypanosoma brucei that occurs exclusively by homologous recombination."</td></tr> <tr><td style="text-align: center;">N</td><td>Kim et al., 1993, Science 262:911-914, "Gene replacement in Toxoplasma gondii with chloramphenicol acetyltransferase as selectable marker."</td></tr> <tr><td style="text-align: center;">O</td><td>LeBowitz et al., 1990, Proc. Natl. Acad. Sci. USA 87:9736-9740, "Development of a stable Leishmania expression vector and application to the study of parasite surface antigen genes."</td></tr> <tr><td style="text-align: center;">P</td><td>Gwo-Shu et al., 1990, Science 250:1583-1586, "Homologous recombination and stable transformation in the parasitic protozoan Trypanosoma brucei."</td></tr> <tr><td style="text-align: center;">Q</td><td>Lindsay et al., 1995, J. Parasitol. 81:313-315, "Mouse model for central nervous system Neospora caninum infections."</td></tr> </table> | F | Asbroek et al, 1990, Nature 348:174-175, "Targeted insertion of the neomycin phosphotransferase gene into the tubulin gene cluster of Trypanosoma brucei." | G | Barr et al., 1994, J. Vet. Diagn. Invest. 6:207-215, "Experimental reproduction of bovine fetal Neospora infection and death with a bovine Neospora isolate." | H | Cole et al., 1995, J. Parasitol. 81:730-732, "Vertical transmission of Neospora caninum in mice." | I | Conrad et al., 1993, Parasitol. 106:239-249, "In vitro isolation and characterization of a Neospora sp. from aborted bovine fetuses." | J | Cruz and Beverley, 1990, Nature 348:171-173, "Gene replacement in parasitic protozoa." | K | Donald and Roos, 1994, Mol. Biochem. Parasitol. 63:243-253, "Homologous recombination and gene replacement at the dihydrofolate reductase-thymidylate synthase locus in Toxoplasma gondii." | L | Dubey and Lindsay, 1993, Parasitol. Today 9:452-458 "Neosporosis." | M | Eid and Solner-Webb, Proc. Natl. Acad. Sci. USA 88:2118-2121, "Stable integrative transformation of Trypanosoma brucei that occurs exclusively by homologous recombination." | N | Kim et al., 1993, Science 262:911-914, "Gene replacement in Toxoplasma gondii with chloramphenicol acetyltransferase as selectable marker." | O | LeBowitz et al., 1990, Proc. Natl. Acad. Sci. USA 87:9736-9740, "Development of a stable Leishmania expression vector and application to the study of parasite surface antigen genes." | P | Gwo-Shu et al., 1990, Science 250:1583-1586, "Homologous recombination and stable transformation in the parasitic protozoan Trypanosoma brucei." | Q | Lindsay et al., 1995, J. Parasitol. 81:313-315, "Mouse model for central nervous system Neospora caninum infections." |
| F | Asbroek et al, 1990, Nature 348:174-175, "Targeted insertion of the neomycin phosphotransferase gene into the tubulin gene cluster of Trypanosoma brucei." | | | | | | | | | | | | | | | | | | | | | | | | |
| G | Barr et al., 1994, J. Vet. Diagn. Invest. 6:207-215, "Experimental reproduction of bovine fetal Neospora infection and death with a bovine Neospora isolate." | | | | | | | | | | | | | | | | | | | | | | | | |
| H | Cole et al., 1995, J. Parasitol. 81:730-732, "Vertical transmission of Neospora caninum in mice." | | | | | | | | | | | | | | | | | | | | | | | | |
| I | Conrad et al., 1993, Parasitol. 106:239-249, "In vitro isolation and characterization of a Neospora sp. from aborted bovine fetuses." | | | | | | | | | | | | | | | | | | | | | | | | |
| J | Cruz and Beverley, 1990, Nature 348:171-173, "Gene replacement in parasitic protozoa." | | | | | | | | | | | | | | | | | | | | | | | | |
| K | Donald and Roos, 1994, Mol. Biochem. Parasitol. 63:243-253, "Homologous recombination and gene replacement at the dihydrofolate reductase-thymidylate synthase locus in Toxoplasma gondii." | | | | | | | | | | | | | | | | | | | | | | | | |
| L | Dubey and Lindsay, 1993, Parasitol. Today 9:452-458 "Neosporosis." | | | | | | | | | | | | | | | | | | | | | | | | |
| M | Eid and Solner-Webb, Proc. Natl. Acad. Sci. USA 88:2118-2121, "Stable integrative transformation of Trypanosoma brucei that occurs exclusively by homologous recombination." | | | | | | | | | | | | | | | | | | | | | | | | |
| N | Kim et al., 1993, Science 262:911-914, "Gene replacement in Toxoplasma gondii with chloramphenicol acetyltransferase as selectable marker." | | | | | | | | | | | | | | | | | | | | | | | | |
| O | LeBowitz et al., 1990, Proc. Natl. Acad. Sci. USA 87:9736-9740, "Development of a stable Leishmania expression vector and application to the study of parasite surface antigen genes." | | | | | | | | | | | | | | | | | | | | | | | | |
| P | Gwo-Shu et al., 1990, Science 250:1583-1586, "Homologous recombination and stable transformation in the parasitic protozoan Trypanosoma brucei." | | | | | | | | | | | | | | | | | | | | | | | | |
| Q | Lindsay et al., 1995, J. Parasitol. 81:313-315, "Mouse model for central nervous system Neospora caninum infections." | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|---|-------------------------------|
| EXAMINER <i>JP</i> | DATE CONSIDERED 2/9/04 |
| <small>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small> | |

| | | | |
|---|--|--|---|
| INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i> Page 2 of 3 | | ATTY. DOCKET NO. 15471ZYX (PC9590F) | SERIAL NO. To Be Assigned 10/669, 94 |
| APPLICANT Brake et al. | | FILING DATE Concurrently herewith | |
| GROUP To Be Assigned 1645 | | | |

| | | |
|-----|----|---|
| VBP | R | Lindsay et al., 1995, Am. J. Vet. Res. 56:1176-1180, "Abortions, fetal deaths, and stillbirths in pregnant pygmy goats inoculated with tachyzoites of Neospora caninum." |
| | S | Lindsay and Dubey, 1989, J. Parasitol. 75:772-779, "Neospora caninum (Protozoa: Apicomplexa) infections in mice." |
| | T | Lindsay and Dubey, 1989, J. Parasitol. 75:163-165, "In vitro development of Neospora caninum (Protozoa: Apicomplexa) from dogs." |
| | U | Lindsay and Dubey, 1990, J. Parasitol. 76:410-413, "Infections in mice with tachyzoites and bradyzoites of Neospora caninum (Protozoa: Apicomplexa)." |
| | V | Lindsay and Dubey, 1990, Can. J. Zool. 68:1595-1599, "Neospora caninum (Protozoa: Apicomplexa) infections in rats." |
| | W | Lindsay et al., 1990, Infect. Immun. 58:2699-2700, "Infection of mice with Neospora caninum (Protozoa: Apicomplexa) does not protect against challenge with Toxoplasma gondii." |
| | X | Marsh et al., 1995, J. Parasitol. 81:530-535, "Sequence analysis and comparison of ribosomal DNA from bovine Neospora to similar coccidial parasites." |
| | Y | Messina et al., 1995, Gene 165:213-217, "Stable DNA transformation of Toxoplasma gondii using phleomycin selection." |
| | Z | Sibley et al., 1994, Proc. Natl. Acad. Sci. USA 91:5508-5512, "Stable DNA transformation in the obligate intracellular parasite Toxoplasma gondii by complementation of tryptophan auxotrophy." |
| | AA | Soldati and Boothroyd, 1993, Science 260:349-352, "Transient transfection and expression in the obligate intracellular parasite Toxoplasma gondii." |
| | AB | Titus et al., 1995, Proc. Natl. Acad. Sci. USA 92:10267-10271, "Development of a safe live Leishmania vaccine line by gene replacement." |
| | AC | Adrianarivo et al, Intl. Journal of Parasitology 30:985-990. |
| | AD | Dreier et al., Intl. J. Parasitology 29:1627-1634. |
| | AE | Hemphill et al., 1996, Infect. Immun. 64(10):4279-4287. |
| | AF | Ho et al., 1996, J. Clin. Microbiol. 34(5):1203-1208. |
| | AG | Pfefferkorn and Pfefferkorn, 1976, Exper. Parasitol. 39:365-376, "Toxoplasma gondii: Isolation and Preliminary Characterization of Temperature-Sensitive Mutants." |

| | |
|--------------|---------------------------|
| EXAMINER | DATE CONSIDERED 2/9/04 |
|--------------|---------------------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE

(Use several sheets if necessary)

**Group
~~To Be Assigned~~**

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL* | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE (if appropriate) |
|----------------------|---|----------------------|-------------------|--------------------------|-------|----------|---------------------------------|
| | 1 | 6,071,737 | 6/2000 | Marsh et al. | 435 | 258.1 | |
| | 2 | 5,707,617 | 1/1998 | Conrad et al. | 424 | 93.1 | Dupl. of |
| | 3 | 5,976,553 | 11/1999 | Kim et al. | 424 | 271.1 | |
| | 4 | 5,889,166 | 3/1999 | Conrad et al. | 536 | 23.1 | |
| | | | | | | | |

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

[illegible]

DATE CONSIDERED

* **EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.